

Amendment
Serial No. 10/562, 542

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IN THE CLAIMS

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A display apparatus (1) comprising:

- [[•]] an electrophoretic medium (5) comprising charged particles (6) in a fluid positioned in one of a plurality positions within said medium;
- [[•]] a plurality of picture elements (2);
- [[•]] a first and second electrode (8,9) associated with each picture element (2) for receiving a potential difference; and
- [[•]] a drive means (100) arranged to:
 - a) supply a sequence of picture potential differences to each of said picture elements (2), each of said picture potential differences having a picture value and an associated picture duration, the product of said picture value and picture duration representing which represents a picture energy for enabling the particles to occupy one of the positions for displaying a picture; and
 - b) supply one or more inter-picture potential differences between at least two consecutive picture potential differences to selected ones of said picture elements, said one or more inter-picture potential differences having an inter-picture value and an associated inter-picture duration, the product of said inter-picture value and inter-picture duration representing which represents an inter-picture energy which is insufficient to substantially change the positions of the particles to cause an optical state change;

the apparatus (1) further comprising a memory means (104) for receiving and storing a data representative of the picture energy and the inter-picture energy of all of said potential differences applied to each picture element (2), and providing a running total thereof of the picture energy and the inter-picture energy for each picture element (2), the drive means (100) being arranged to select the polarity of said one or more inter-picture potential differences such that a the magnitude of

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said running total for a respective a corresponding one of said picture elements (2) picture element (2) is reduced.

2. (Currently amended) The apparatus Apparatus (1) according to claim 1, wherein a time interval is provided between each inter-picture potential difference applied to a picture element corresponding one of said plurality of picture elements (2).

3. (Currently amended) The apparatus Apparatus (1) according to claim 2, wherein said time interval is of the order of 0.5 seconds.

4. (Currently amended) The apparatus Apparatus (1) according to claim 1 any one of the preceding claims, wherein the duration pulse time period of each inter-picture potential difference is 2-8ms.

5. (Currently amended) The apparatus Apparatus (1) according to claim 1, any one of the preceding claims, wherein the value of said inter-picture potential differences is substantially [[the]] a maximum voltage available on the drive means (100).

6. (Currently amended) The apparatus Apparatus (1) according to claim 1 any one of the preceding claims, wherein one or more of said inter-picture potential differences have an inter-picture value below [[the]] a switching threshold voltage of the ink an ink material materials used in said display apparatus.

7. (Currently amended) The apparatus Apparatus (1) according to claim 1 any one of the preceding claims, wherein [[the]] a number and a polarity of said inter-picture potential differences are stored in the memory means (104).

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